

WHAT IS CLAIMED IS:

1. A non-explosive acoustic source comprising:
  - a confinement tube including apertures at opposing ends thereof and a combustion chamber located between the opposing ends, wherein the combustion chamber includes aluminum powder;
  - a first end plug located in a first aperture of the confinement tube, wherein the first end plug includes means for permitting the entry of water into the confinement tube at a specific water pressure;
  - a second end plug located in a second aperture of the confinement tube opposite the first aperture, wherein the second end plug includes a detonator.
2. A non-explosive acoustic source as claimed in claim 1, wherein the means for permitting entry of water into the confinement tube comprises a burst disk.
3. A non-explosive acoustic source as claimed in claim 2, wherein the means for permitting entry of water into the confinement tube further comprises a ball valve unit.
4. A non-explosive acoustic source as claimed in claim 1, wherein the confinement tube includes a weak point designed to fracture when subjected to a predetermined internal pressure.

5. A non-explosive acoustic source as claimed in claim 1, wherein at least one of the end plugs is designed to shear at a predetermined internal pressure.